

HW 2.9

P 141-143 10-36 EVENS (SKIP 30), 54, 56

$$10. \frac{75}{15} = \frac{x}{100} \quad 15x = 7500 \quad x = 500\%$$

$$12. \frac{40}{32} = \frac{x}{100} \quad 32x = 4000 \quad x = 125\%$$

$$14. \frac{88}{88} = \frac{x}{100} \quad 88x = 8800 \quad x = 100\%$$

$$16. \frac{x}{150} = \frac{63}{100} \quad 100x = 9450 \quad x = 94.5$$

$$18. \frac{x}{63} = \frac{150}{100} \quad 100x = 9450 \quad x = 94.5$$

$$20. \frac{x}{1} = \frac{1}{100} \quad 100x = 1 \quad x = 0.01$$

$$22. \frac{x}{4.50} = \frac{140}{100} \quad 100x = 630 \quad x = \$6.30$$

$$24. \frac{20}{x} = \frac{80}{100} \quad 2000 = 80x \quad x = 25$$

$$26. \frac{200}{x} = \frac{160}{100} \quad 160x = 20000 \quad x = 125$$

$$28. \frac{1}{x} = \frac{1}{100} \quad x = 100 \quad x = 100$$

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32. PERCENT

$$\frac{96}{36} = \frac{x}{100} \quad \frac{36x}{36} = \frac{9600}{36}$$

$$x = 266.\bar{6} \%$$

$$\text{or } 266\frac{2}{3} \%$$

34. PART

$$\frac{x}{64} = \frac{175}{100} \quad \frac{100x}{100} = \frac{11200}{100}$$

$$x = 112$$

36. BASE

$$\frac{60}{x} = \frac{250}{100} \quad \frac{250x}{250} = \frac{6000}{250}$$

$$x = 24$$

54.

$$\frac{2}{10,000} = \frac{x}{100} \quad \frac{10,000x}{10,000} = \frac{200}{10,000}$$

$$x = .02 \%$$

C

$$56. \left(\frac{x}{2}\right)^3 + \left(\frac{x}{3}\right)^2 - (15)\frac{6}{6} = 0$$

$$6\left(\frac{3x}{6} + \frac{2x}{6} - \frac{90}{6}\right) = (0)6$$

$$3x + 2x - 90 = 0$$

$$\begin{array}{r} 3x + 2x - 90 = 0 \\ +90 \quad +90 \\ \hline 5x = 90 \\ \underline{5} \quad \underline{5} \end{array}$$

$$x = 18$$

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